Appl. No. 10/058,270
Amdt. dated May 14, 2003
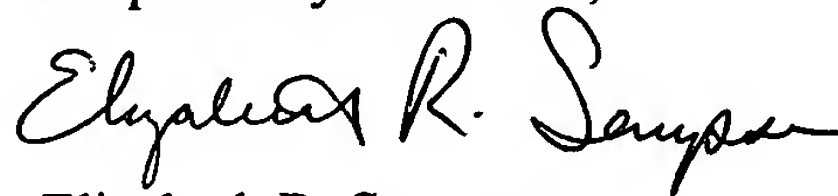Response to Notice to Complyof March 20, 2003

PATENT

REMARKS

Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-141, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

Paragraph beginning at line 7 of page 52 has been amended as follows:

Various tag polypeptides and their respective antibodies are well known in the art. Examples include poly-histidine (poly-his) or poly-histidine-glycine (poly-his-gly) tags; HIS6 (SEQ ID NO:139) and metal chelation tags, the flu HA tag polypeptide and its antibody 12CA5 (Field *et al., Mol. Cell. Biol.* 8:2159-2165 (1988)); the c-myc tag and the 8F9, 3C7, 6E10, G4, B7 and 9E10 antibodies thereto (Evan *et al., Molecular and Cellular Biology* 5:3610-3616 (1985)); and the Herpes Simplex virus glycoprotein D (gD) tag and its antibody (*Paborsky et al., Protein Engineering* 3(6):547-553 (1990)). Other tag polypeptides include the Flag-peptide (*Hopp et al., BioTechnology* 6:1204-1210 (1988)); the KT3 epitope peptide (Martin *et al., Science* 255:192-194 (1992)); tubulin epitope peptide (Skinner *et al., J. Biol. Chem.* 266:15163-15166 (1991)); and the T7 gene 10 protein peptide tag (Lutz-Freyermuth *et al., Proc. Natl. Acad. Sci. USA* 87:6393-6397 (1990)).

Paragraph beginning at line 17 of page 96 has been amended as follows:

The first strand can be make using using Gibco's "SuperScript Choice System for cDNA Synthesis" kit. The starting material is 5 ug of total RNA or 1 ug of polyA+ mRNAl. For total RNA, 2 ul of SuperScript RT is used; for polyA+ mRNA, 1 ul of SuperScript RT is used. The final volume of first strand synthesis mix is 20 ul. The RNA should be in a volume no greater than 10 ul. The RNA is incubated with 1 ul of 100 pmol T7-T24 oligo (SEQ ID NO:140) for 10 min at 70°C followed by addition on ice of 7 ul of: 4ul 5X 1st Strand Buffer, 2 ul of 0.1M DTT, and 1 ul of 10mM dNTP mix.

The preparation is then incubated at 37°C for 2 min before addition of the SuperScript

RT followed by incubation at 37°C for 1 hour.

Paragraph (**TABLE 13**, heading) beginning at line 4 of page 215 has been amended as

follows:

TABLE 13: Table 1 from BRCA 001-5 US

Table 13 depicts a preferred group of genes upregulated in breast cancer cells.

Pkey: Unique Eos probeset identifier number
ExAccn: Exemplar Accession number, Genbank accession number
UnigeneID: Unigene number
Unigene Title: Unigene gene title
R1:   Ratio of tumor to normal body tissue
In Pkeys 119867 and 129665, KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum retention sequence = SEQ ID NO:141.

Paragraph (Table 25, Seq ID NO: 96) beginning at line 27 of page 389 has been amended

as follows:

Seq ID NO: 96 Protein sequence:
Protein Accession #:   NP_002488

```
1    11   21   31   41   51
|    |    |    |    |    |
GIREFNPNIM ANEVERINMI TOSISGENEA RELATEDKIN ASEHOMOSAP IENSMPSRAE  60
DYEVLYTIGT GSYGRCQKIR RKSDGKILVW KELDYGSMTE AEKQMLVSEV NLLRELKHPN  120
IVRYYDRIID RTNTTLYIVM EYCEGGDLAS VITKGTKERQ YLDEEFVLRV MTQLTLALKE  180
CHRRSDGGHT VLHRDLKPAN VFLDGKQNVK LGDFGLARIL NHDTSFAKTF VGTPYYMSPE  240
QMNRMSYNEK SDIWSLGCLL YELCALMPPF TAFSQKELAG KIREGKFRRI PYRYSDELNE  300
IITRMLNLKD YHRPSVEEIL ENPLIADLVA DEQRRNLERR GRQLGEPEKS QDSSPVLSEL  360
KLKEIQLQER ERALKAREER LEQKEQELCV RERLAEDKLA RAENLLKNYS LLKERKFLSL  420
ASNPELLNLP SSVIKKKVHF SGESKENIMR SENSESQLTS KSKCKDLKKR LHAAQLRAQA  480
LSDIEKNYQL KSRQILGMR
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Paragraph (Table 25, Seq ID NO: 98) beginning at line 30 of page 392 has been amended as follows:

Seq ID NO: 98 Protein sequence:
Protein Accession #:   NP_008981.1

```
1     11    21    31    41    51
|     |     |     |     |     |
|     |     |     |     |     |
GIREFNPPRO TEINTYROSI NEPHOSPHAT ASERECEPTO RTYPETHOMO SAPIENSMAS   60
LAALALSLLL RLQLPPLPGA RAQSAPGGCS FDEHYSNCGY SVALGTNGFT WEQINTTEKP  120
MLDQAVPTGS FMMVNSSGRA SGQKAHLLLP TLKENDTHCI DFHYYFSSRD RSSPGALNVY  180
VKVNGGPQGN PVWNVSGVVT EGWVKAELAI STFWPHFYQV IFESVSLKGH PGYIAVDEVR  240
VLAHPCRKAP HFLRLQNVEV NVGQNATFQC IAGGKWSQHD KLWLQQWNGR DTALMVTRVV  300
NHRRFSATVS VADTAQRSVS KYRCVIRSDG GSGVSNYAEL IVKEPPTPIA PPELLAVGAT  360
YLWIKPNANS IIGDGPIILK EVEYRTTTGT WAETHIVDSP NYKLWHLDPD VEYEIRVLLT  420
RPGEGGTGPP GAPLTTRTKC ADPVHGPQNV EIVDIRARQL TLQWEPFGYA VTRCHSYNLT  480
VQYQYVFNQQ QYEAEEVIQT SSHYTLRGLR PFMTIRLRLL LSNPEGRMES EELVVQTEED  540
VPGAVPLESI QGGPFEEKIY IQWKPPNETN GVITLYEINY KAVGSLDPSA DLSSQRGKVF  600
KLRNETHHLF VGLYPGTTYS FTIKASTAKG FGPPVTTRIA TKISAPSMPE YDTDTPLNET  660
DTTITVMLKP AQSRGAPVSV YQLVVKEERL QKSRRAADII ECFSVPVSYR NASSLDSLHY  720
FAAELKPANL PVTQPFTVGD NKTYNGYWNP PLSPLKSYSI YFQALSKANG ETKINCVRLA  780
TKAPMGSAQV TPGTPLCLLT TGASTQNSNT VEPEKQVDNT VKMAGVIAGL LMFIIILLGV  840
MLTIKRRRNA YSYSYYLSQR KLAKKQKETQ SGAQREMGPV ASADKPTTKL SASRNDEGFS  900
SSSQDVNGFT DGSRGELSQP TLTIQTHPYR TCDPVEMSYP RDQFQLAIRV ADLLQHITQM  960
KRGQGYGFKE EYEALPEGQT ASWDTAKEDE NRNKNRYGNI ISYDHSRVRL LVLDGDPHSD  1020
YINANYIDGY HRPRHYIATQ GPMQETVKDF WRMIWQENSA SIVMVTNLVE VGRVKCVRYW  1080
PDDTEVYGDI KVTLIETEPL AEYVIRTFTV QKKGYHEIRE LRLFHFTSWP DHGVPCYATG  1140
LLGFVRQVKF LNPPEAGPIV VHCSAGAGRT GCFIAIDTML DMAENEGVVD IFNCVRELRA  1200
QRVNLVQTEE QYVFVHDAIL EACLCGNTAI PVCEFRSLYY NISRLDPQTN SSQIKDEFQT  1260
LNIVTPRVRP EDCSIGLLPR NHDKNRSMDV LPLDRCLPFL ISVDGESSNY INAALMDSHK  1320
QPAAFVVTQH PLPNTVADFW RLVFDYNCSS VVMLNEMDTA QFCMQYWPEK TSGCYGPIQV  1380
EFVSADIDED IIHRIFRICN MARPQDGYRI VQHLQYIGWP AYRDTPPSKR SLLKVVRRLE  1440
KWQEQYDGRE GRTVVHCLNG GGRSGTFCAI CSVCEMIQQQ NIIDVFHIVK TLRNNKSNMV  1500
ETLEQYKFVY EVALEYLSSF
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